

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070620\
 Data File : VX017183.D
 Acq On : 06 Jul 2020 20:58
 Operator : JC/SP
 Sample : L3159-17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 09BR-20200629

Quant Time: Jul 07 06:54:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	264753	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	439193	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	462119	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	261416	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	169055	51.80	ug/l	0.00
Spiked Amount			Recovery	=	103.60%	
35) Dibromofluoromethane	5.46	113	146586	52.76	ug/l	0.00
Spiked Amount			Recovery	=	105.52%	
50) Toluene-d8	8.70	98	543386	52.89	ug/l	0.00
Spiked Amount			Recovery	=	105.78%	
62) 4-Bromofluorobenzene	11.12	95	229293	57.10	ug/l	0.00
Spiked Amount			Recovery	=	114.20%	

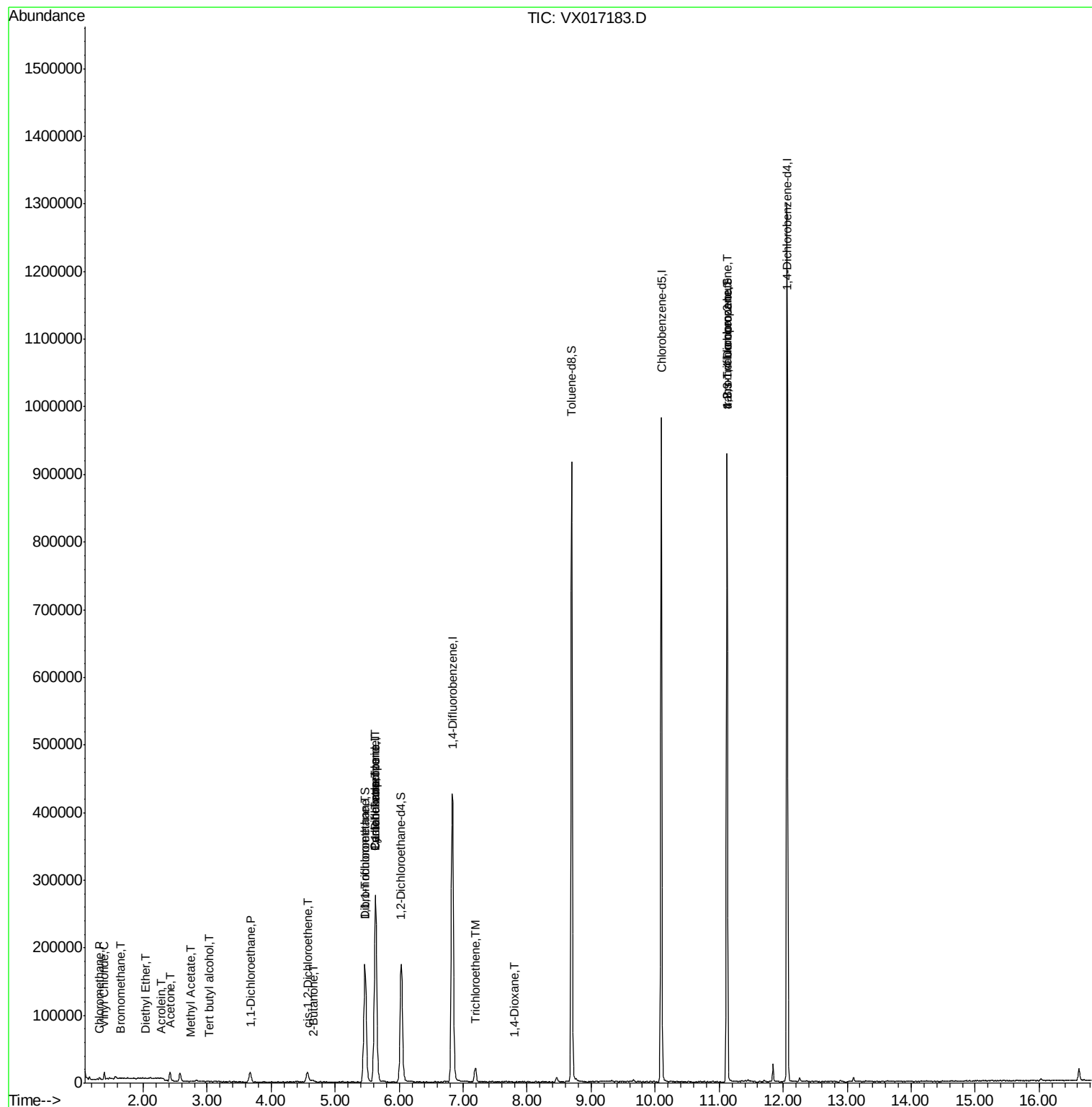
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2099	0.677	ug/l	90
4) Vinyl Chloride	1.39	62	4513	1.569	ug/l	100
5) Bromomethane	1.65	94	365	0.240	ug/l #	67
8) Diethyl Ether	2.03	74	128	0.454	ug/l	70
11) Tert butyl alcohol	3.02	59	1113	1.788	ug/l #	93
13) Acrolein	2.28	56	156	0.419	ug/l #	15
16) Acetone	2.42	43	13871	11.361	ug/l #	83
18) Methyl Acetate	2.75	43	645	0.202	ug/l #	51
20) Methylene Chloride	2.83	84	988	Below Cal	#	85
24) 1,1-Dichloroethane	3.67	63	15831	3.105	ug/l	94
25) 2-Butanone	4.65	43	2356	1.158	ug/l	93
27) cis-1,2-Dichloroethene	4.57	96	9512	2.888	ug/l	83
31) Cyclohexane	5.63	56	5064	1.149	ug/l #	1
32) 1,1,1-Trichloroethane	5.46	97	4526	0.940	ug/l #	49
36) 1,1-Dichloropropene	5.63	75	19325	4.656	ug/l #	51
38) Carbon Tetrachloride	5.63	117	25565	5.592	ug/l #	18
44) Trichloroethene	7.20	130	8096	2.109	ug/l	95
49) 1,4-Dioxane	7.81	88	24	0.319	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	113950	22.167	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	113950	57.404	ug/l #	13
88) 1,4-Dichlorobenzene	12.07	146	537	Below Cal	#	1

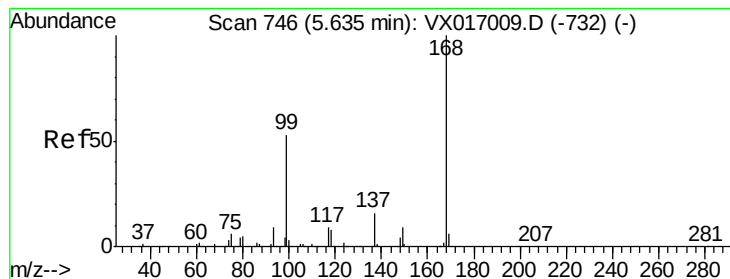
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampled :
09BR-20200629

Quant Time: Jul 07 06:54:06 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 29 17:10:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017183.D

Acq: 06 Jul 2020 20:58

Instrument :

MSVOA_X

ClientSampleId :

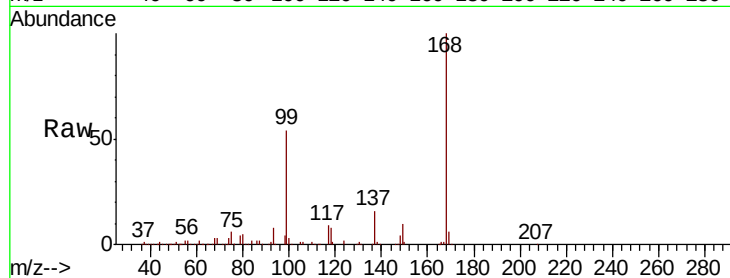
09BR-20200629

Tot Ion:168 Resp: 264753

Ion Ratio Lower Upper

168 100

99 53.8 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

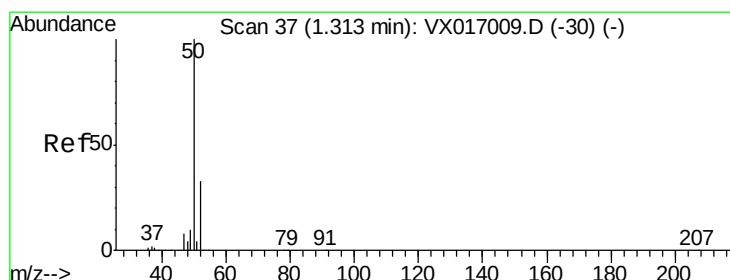
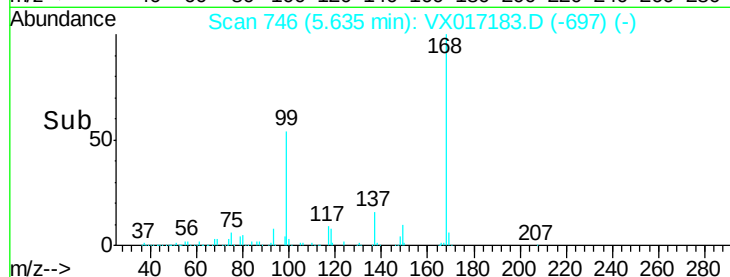
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.677 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017183.D

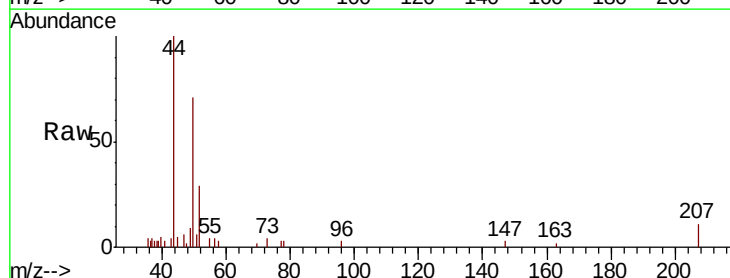
Acq: 06 Jul 2020 20:58

Tgt Ion: 50 Resp: 2099

Ion Ratio Lower Upper

50 100

52 38.3 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

2000

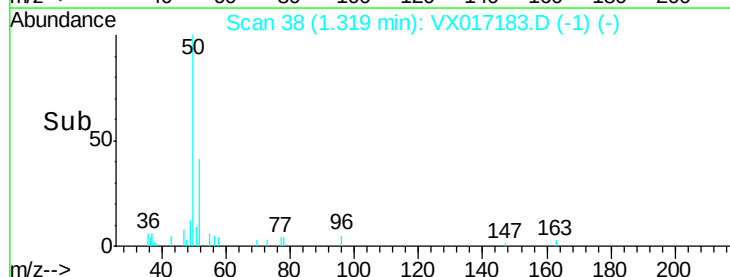
1500

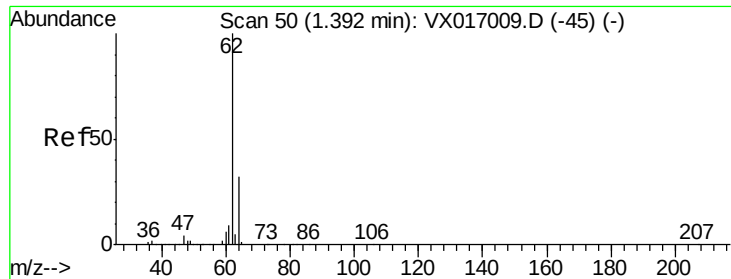
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: 1.569 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX017183.D

Acq: 06 Jul 2020 20:58

Instrument :

MSVOA_X

ClientSampleId :

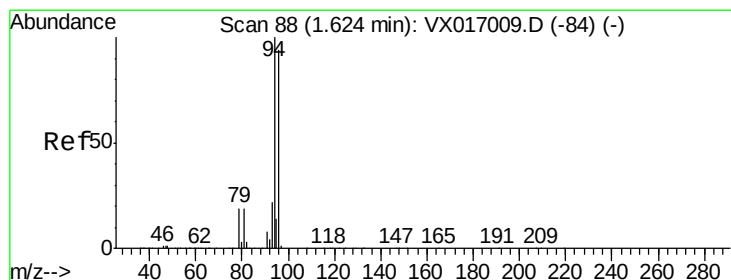
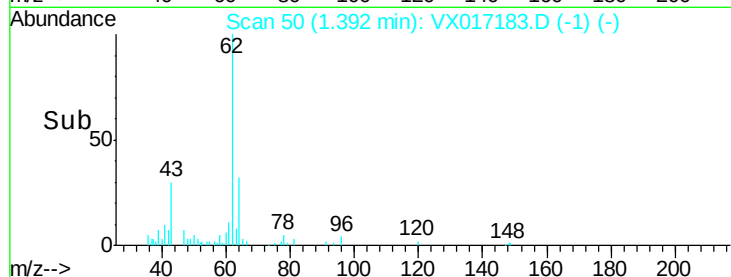
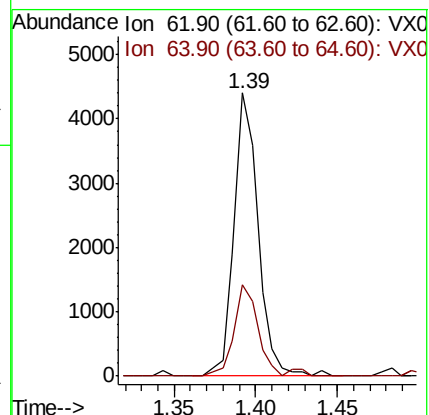
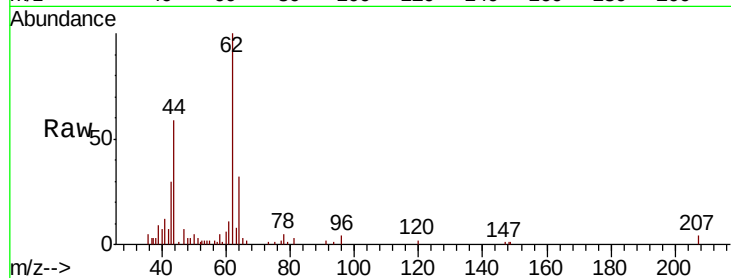
09BR-20200629

Tot Ion: 62 Resp: 4513

Ion Ratio Lower Upper

62 100

64 32.2 25.9 38.9



#5

Bromomethane

Concen: 0.240 ug/l

RT: 1.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VX017183.D

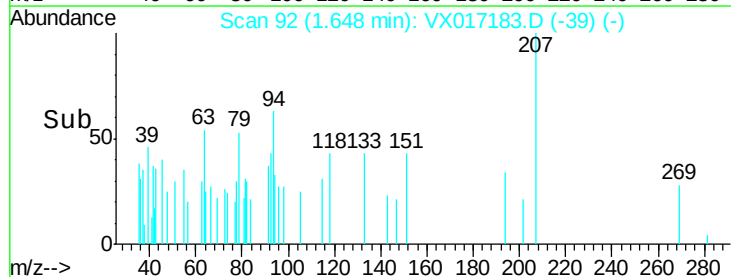
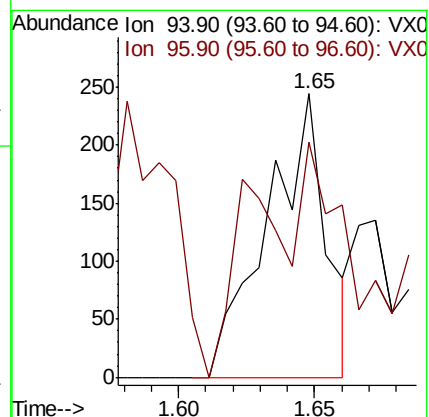
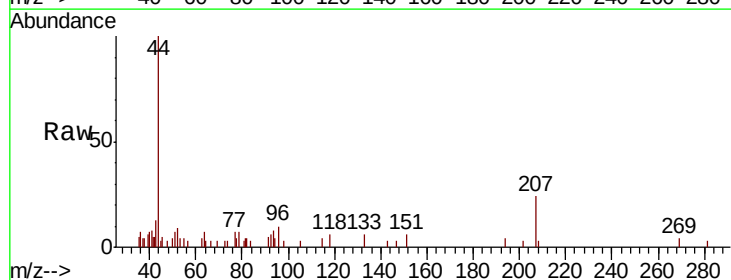
Acq: 06 Jul 2020 20:58

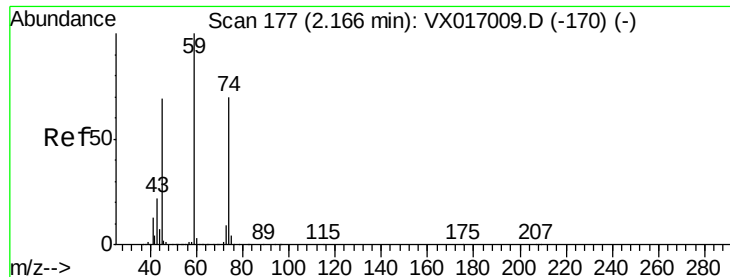
Tgt Ion: 94 Resp: 365

Ion Ratio Lower Upper

94 100

96 61.9 75.0 112.4#





#8

Diethyl Ether

Concen: 0.454 ug/l

RT: 2.03 min Scan# 155

Delta R.T. -0.13 min

Lab File: VX017183.D

Acq: 06 Jul 2020 20:58

Instrument :

MSVOA_X

ClientSampleId :

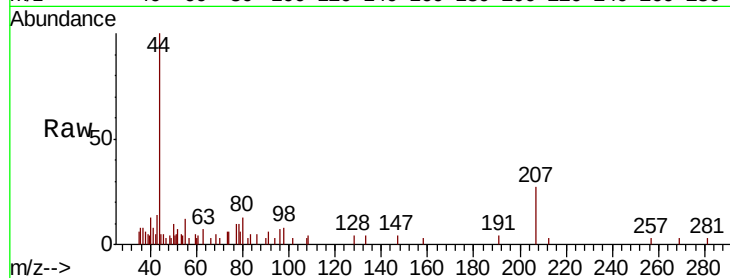
09BR-20200629

Tot Ion: 74 Resp: 128

Ion Ratio Lower Upper

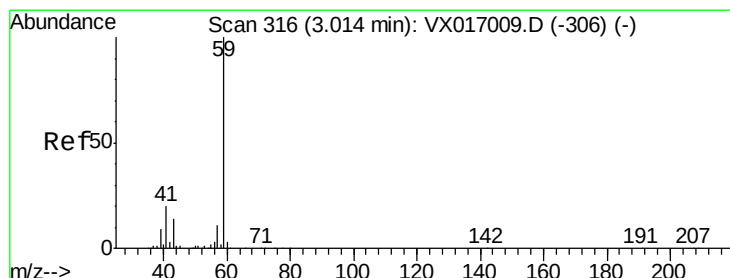
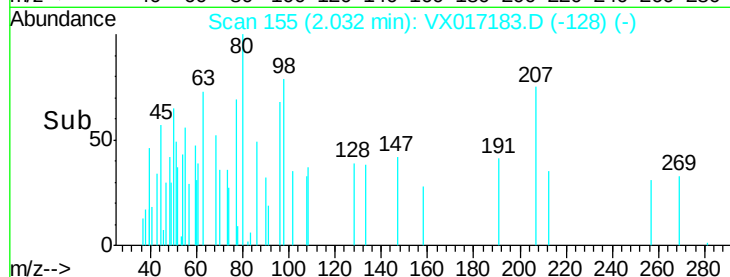
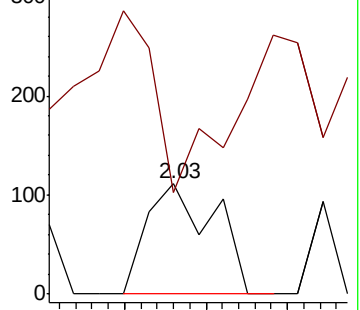
74 100

45 129.7 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 1.788 ug/l

RT: 3.02 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX017183.D

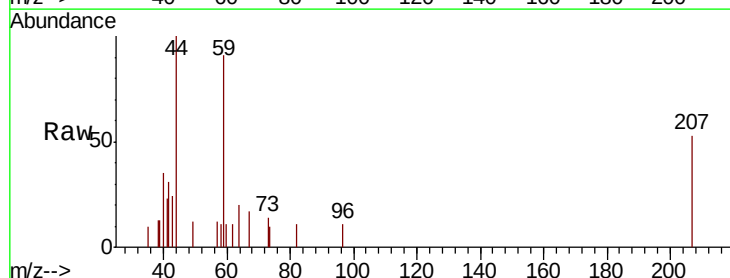
Acq: 06 Jul 2020 20:58

Tgt Ion: 59 Resp: 1113

Ion Ratio Lower Upper

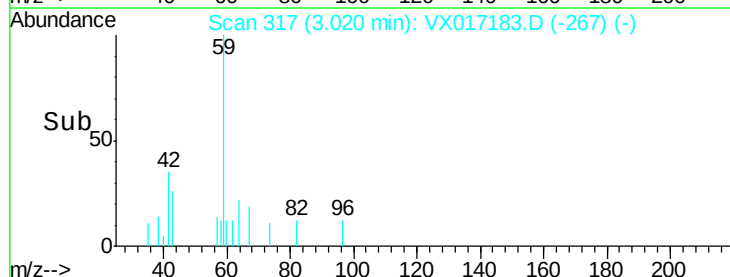
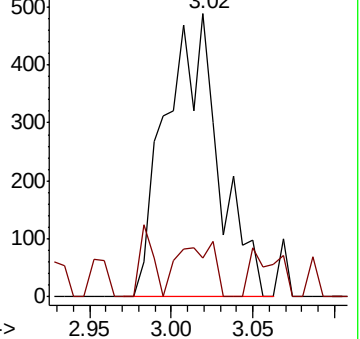
59 100

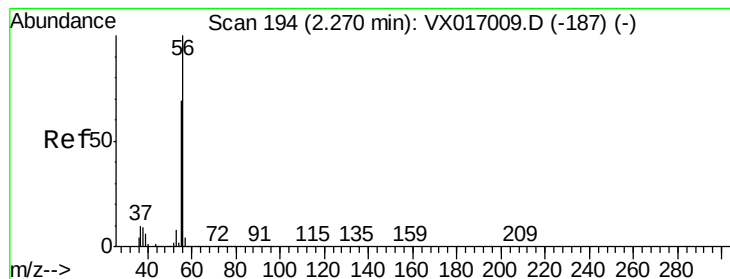
57 12.8 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.419 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX017183.D

Acq: 06 Jul 2020 20:58

Instrument :

MSVOA_X

ClientSampleId :

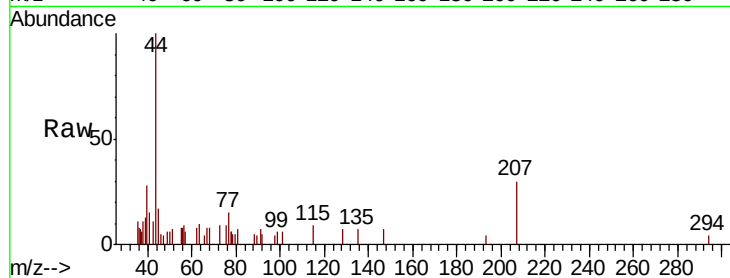
09BR-20200629

Tot Ion: 56 Resp: 156

Ion Ratio Lower Upper

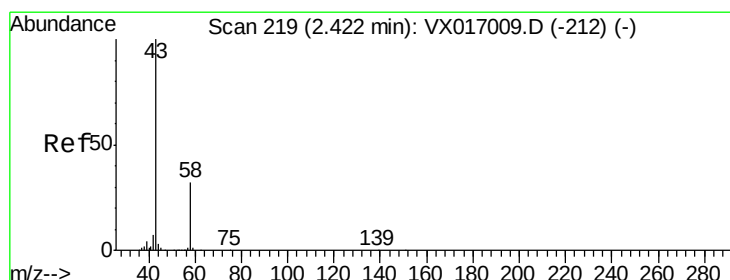
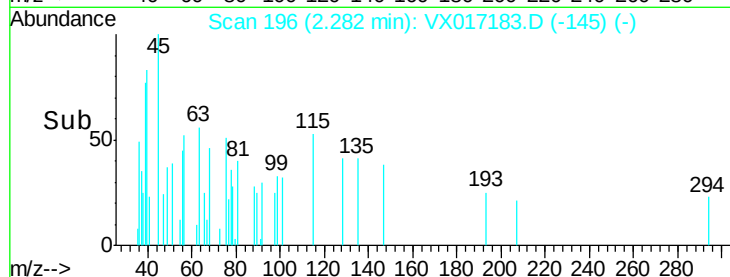
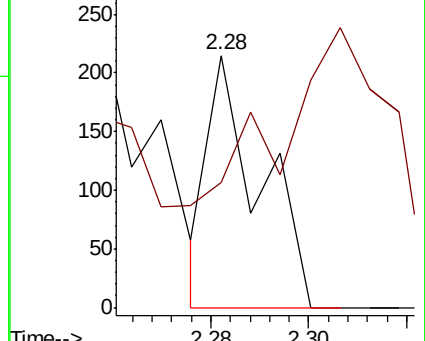
56 100

55 0.0 55.7 83.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 11.361 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017183.D

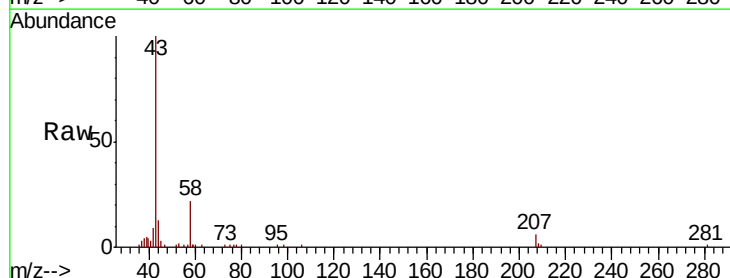
Acq: 06 Jul 2020 20:58

Tgt Ion: 43 Resp: 13871

Ion Ratio Lower Upper

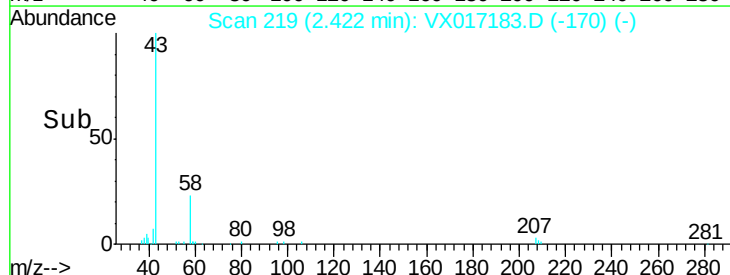
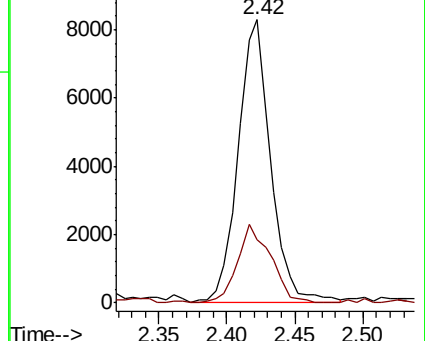
43 100

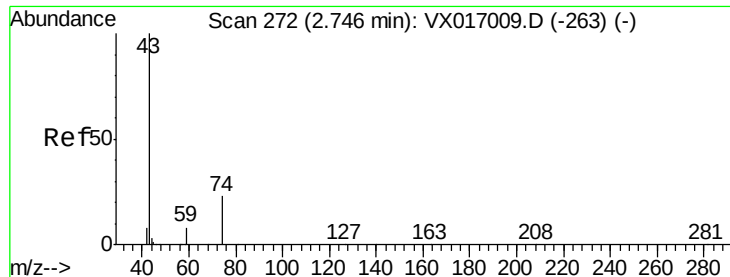
58 22.5 25.7 38.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

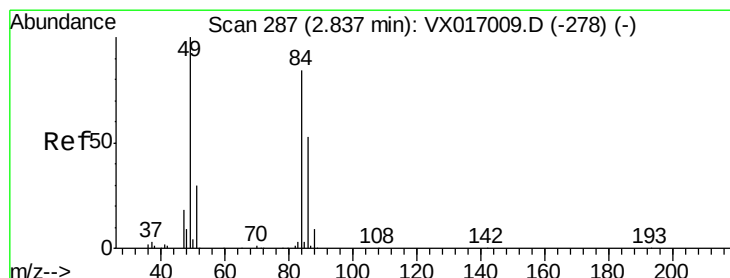
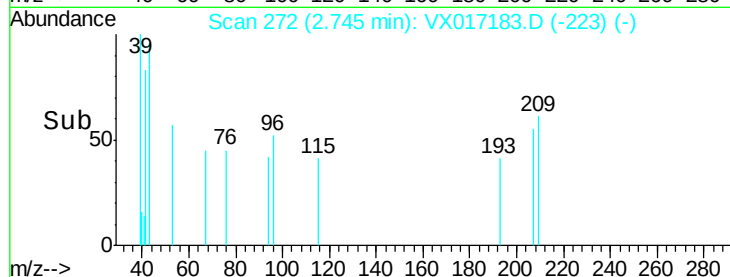
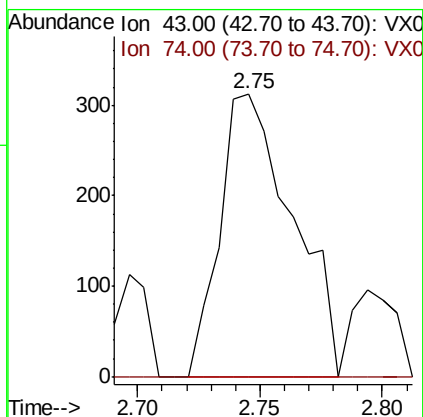
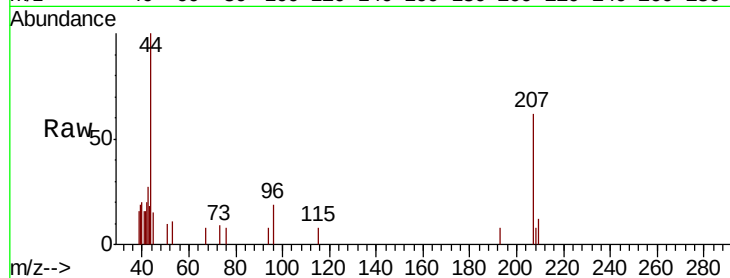




#18
Methyl Acetate
Concen: 0.202 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.00 min
Lab File: VX017183.D
Acq: 06 Jul 2020 20:58

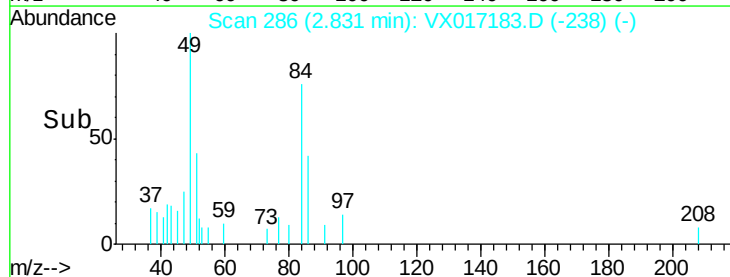
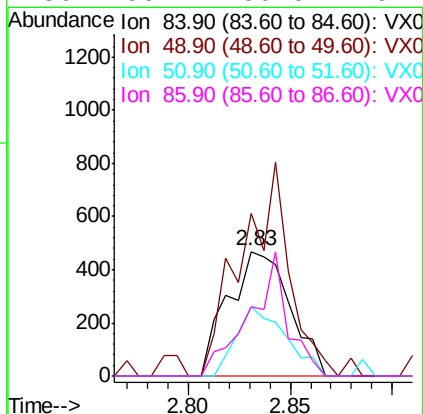
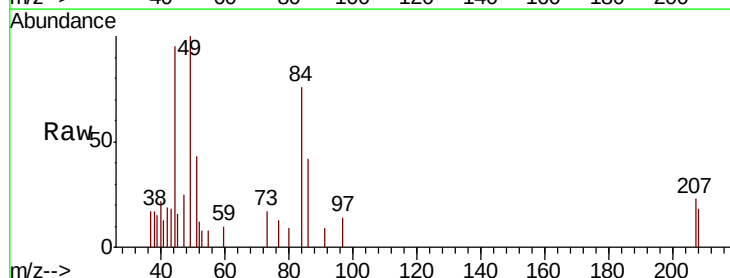
Instrument :
MSVOA_X
ClientSampleId :
09BR-20200629

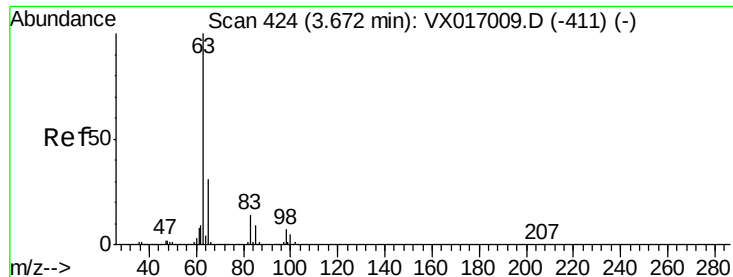
Tot Ion: 43 Resp: 645
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX017183.D
Acq: 06 Jul 2020 20:58

Tgt Ion: 84 Resp: 988
Ion Ratio Lower Upper
84 100
49 131.2 94.7 142.1
51 55.8 28.6 42.8#
86 55.1 50.5 75.7





#24

1,1-Dichloroethane

Concen: 3.105 ug/l

RT: 3.67 min Scan# 424

Delta R.T. -0.00 min

Lab File: VX017183.D

Acq: 06 Jul 2020 20:58

Instrument :

MSVOA_X

ClientSampleId :

09BR-20200629

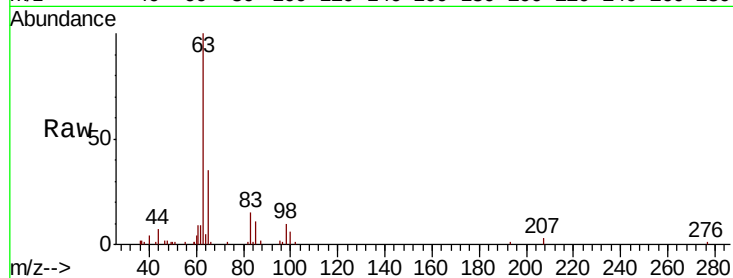
Tot Ion: 63 Resp: 15831

Ion Ratio Lower Upper

63 100

98 9.7 3.6 10.8

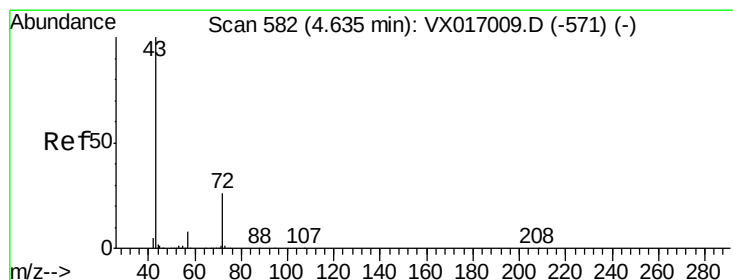
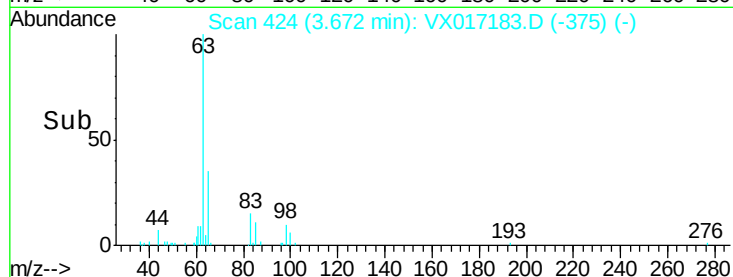
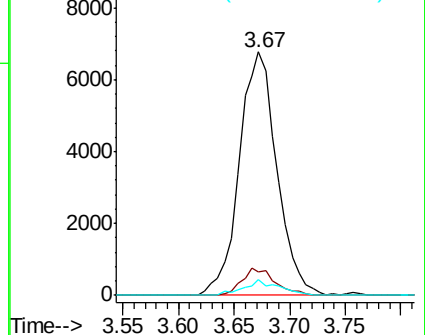
100 6.4 2.4 7.1



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 1.158 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX017183.D

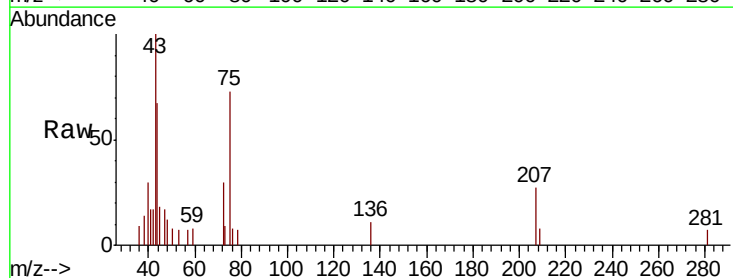
Acq: 06 Jul 2020 20:58

Tgt Ion: 43 Resp: 2356

Ion Ratio Lower Upper

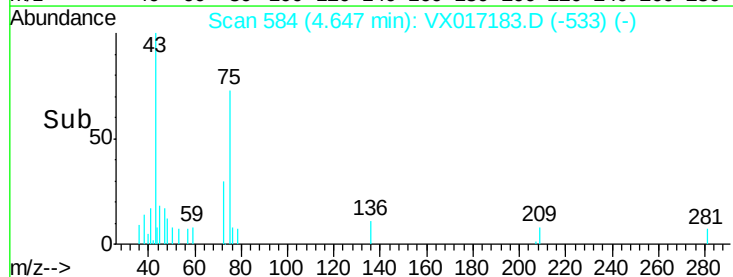
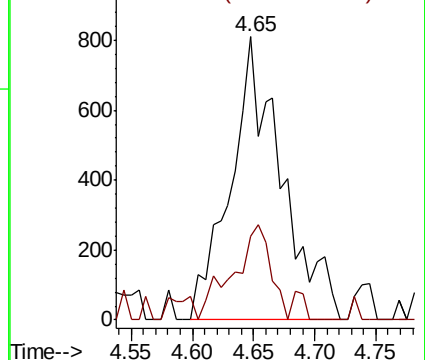
43 100

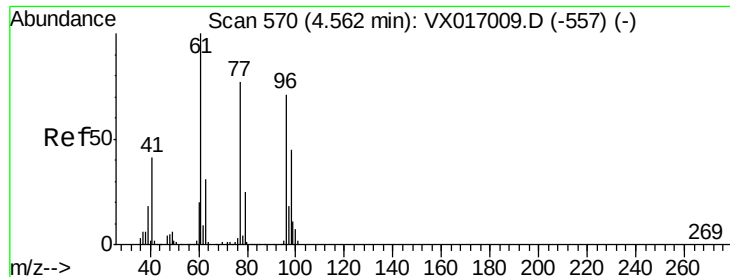
72 29.6 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



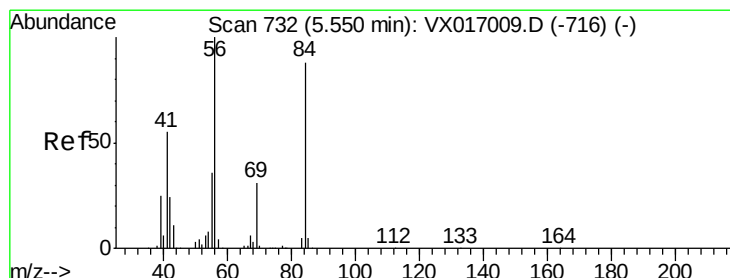
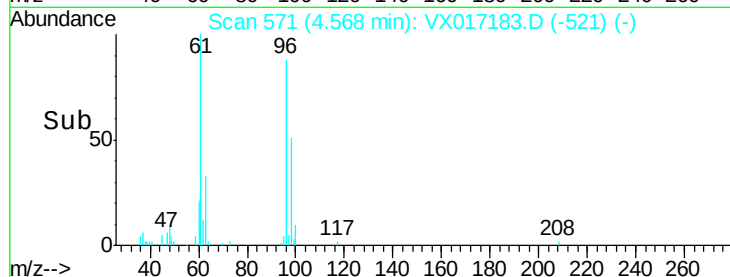
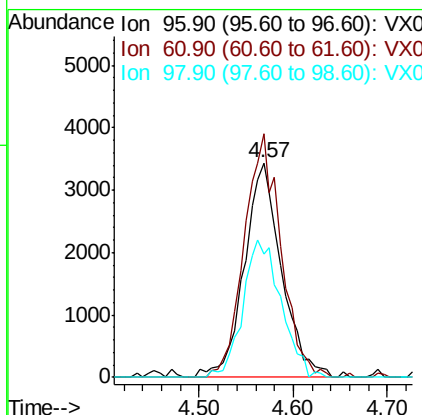
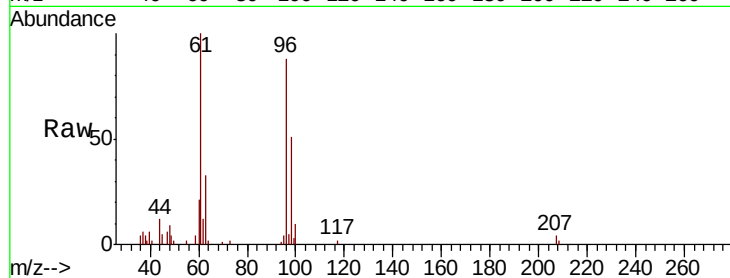


#27

cis-1,2-Dichloroethene
 Concen: 2.888 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. 0.01 min
 Lab File: VX017183.D
 Acq: 06 Jul 2020 20:58

Instrument :
 MSVOA_X
 ClientSampleId :
 09BR-20200629

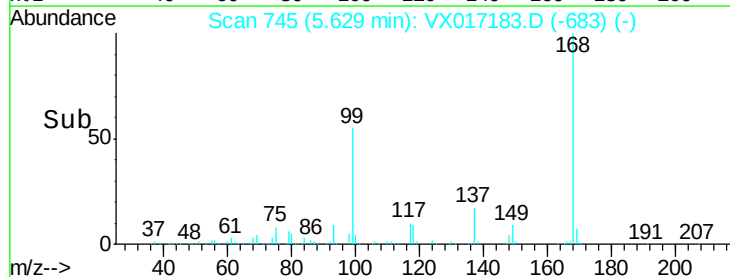
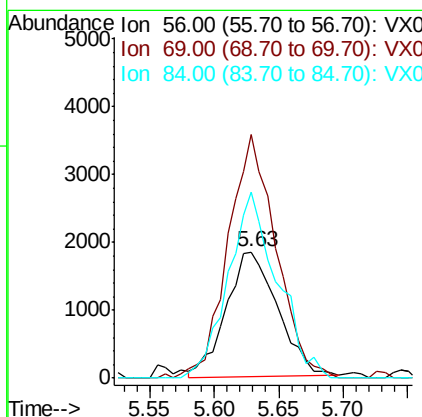
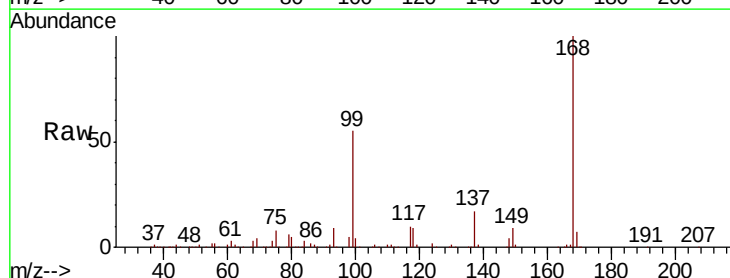
Tot Ion	96	Resp	9512
Ion	Ratio	Lower	Upper
96	100		
61	111.7	0.0	282.8
98	65.6	0.0	127.6

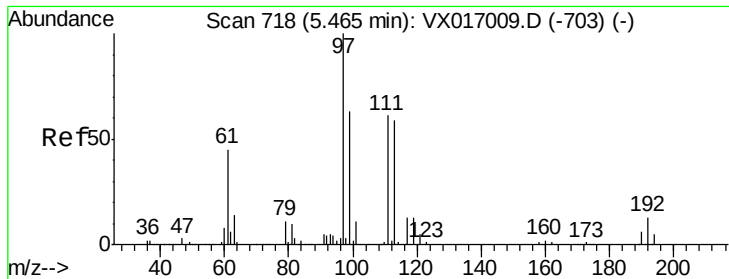


#31

Cyclohexane
 Concen: 1.149 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. 0.08 min
 Lab File: VX017183.D
 Acq: 06 Jul 2020 20:58

Tgt Ion	56	Resp	5064
Ion	Ratio	Lower	Upper
56	100		
69	198.3	25.0	37.4#
84	151.6	69.1	103.7#





#32

1,1,1-Trichloroethane

Concen: 0.940 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX017183.D

Acq: 06 Jul 2020 20:58

Instrument :

MSVOA_X

ClientSampleId :

09BR-20200629

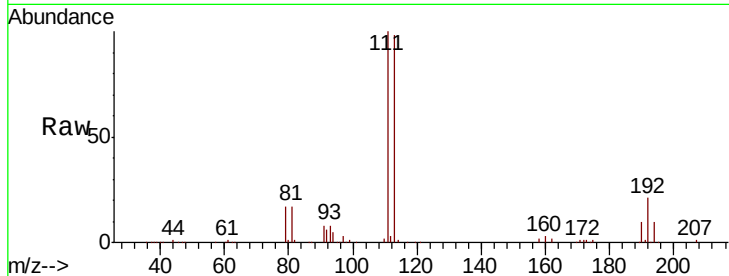
Tot Ion: 97 Resp: 4526

Ion Ratio Lower Upper

97 100

99 0.0 50.8 76.2#

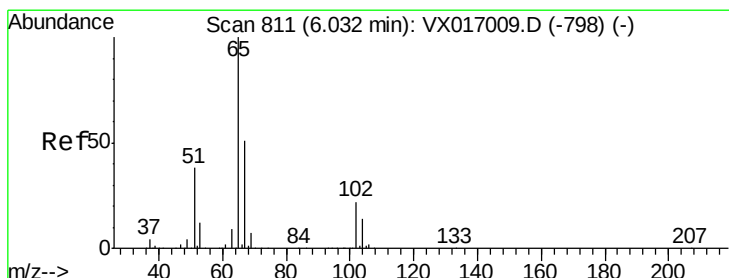
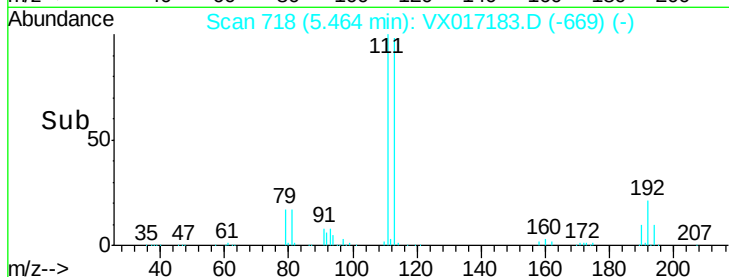
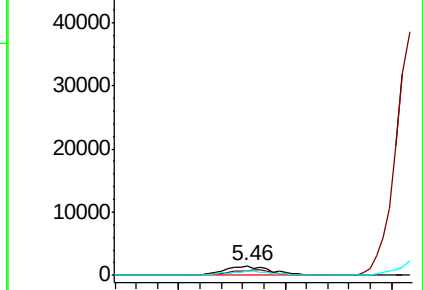
61 44.9 33.7 50.5



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 51.796 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017183.D

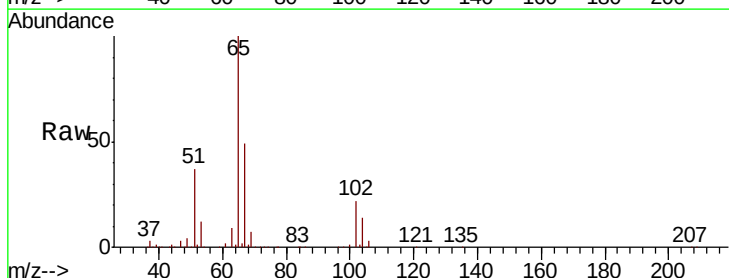
Acq: 06 Jul 2020 20:58

Tgt Ion: 65 Resp: 169055

Ion Ratio Lower Upper

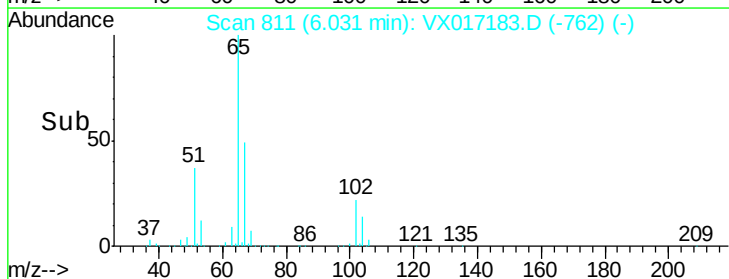
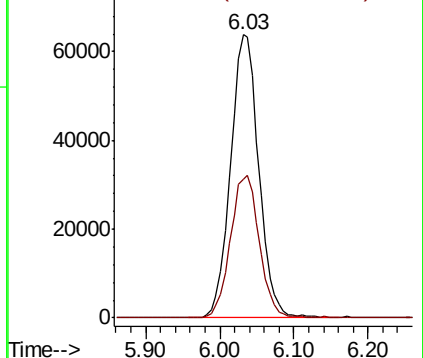
65 100

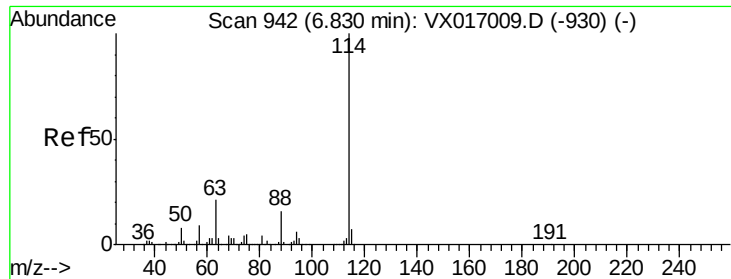
67 51.6 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017183.D

Acq: 06 Jul 2020 20:58

Instrument :

MSVOA_X

ClientSampleId :

09BR-20200629

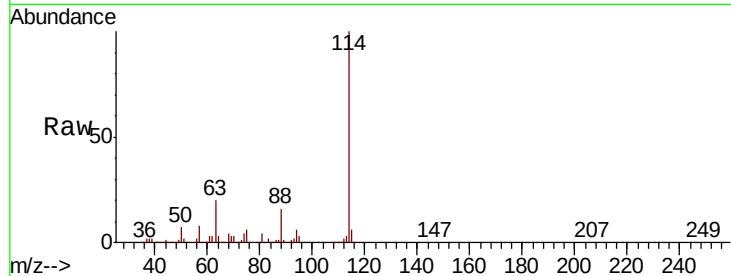
Tot Ion:114 Resp: 439193

Ion Ratio Lower Upper

114 100

63 19.8 0.0 41.4

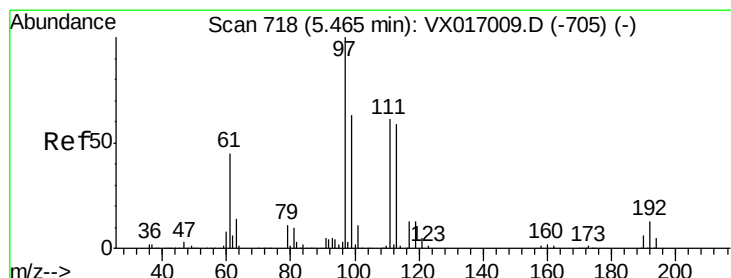
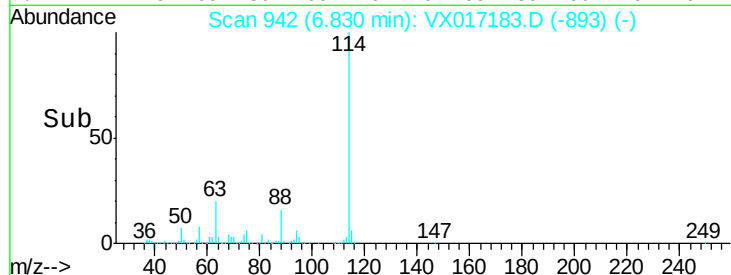
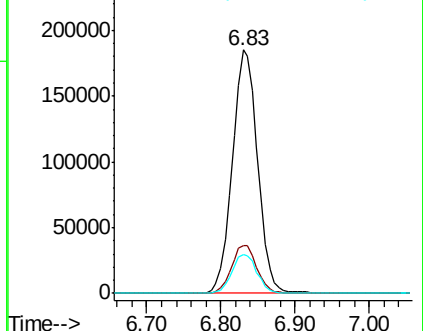
88 15.9 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 52.763 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX017183.D

Acq: 06 Jul 2020 20:58

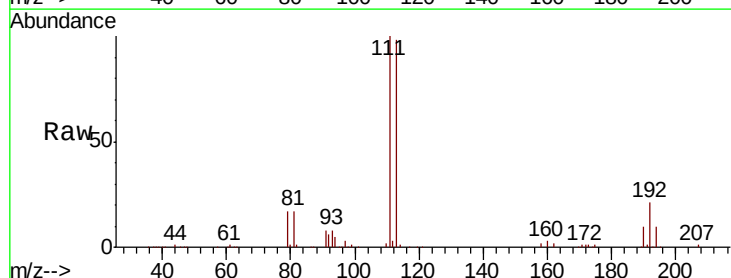
Tgt Ion:113 Resp: 146586

Ion Ratio Lower Upper

113 100

111 102.1 81.9 122.9

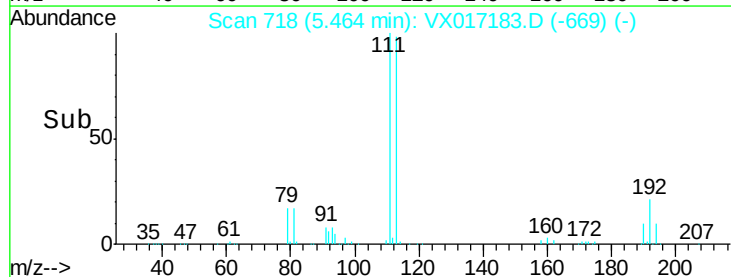
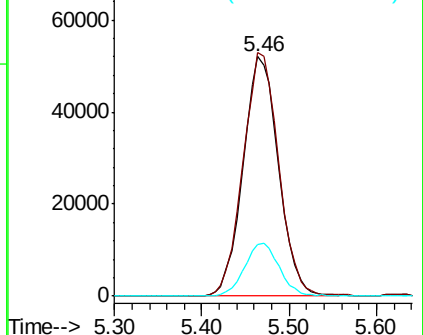
192 21.7 16.7 25.1

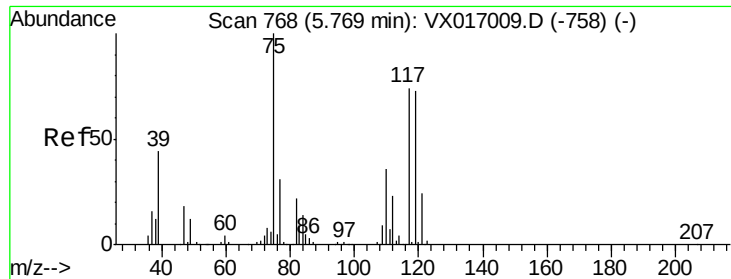


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

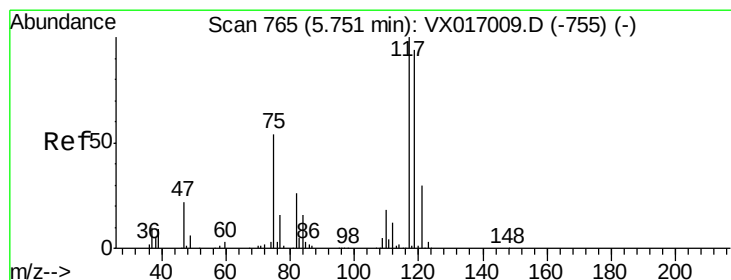
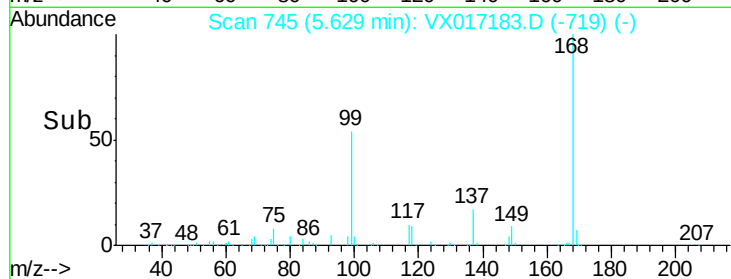
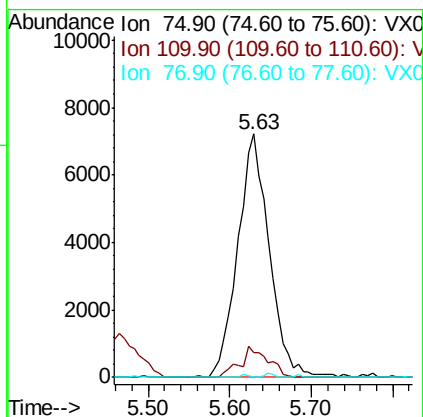
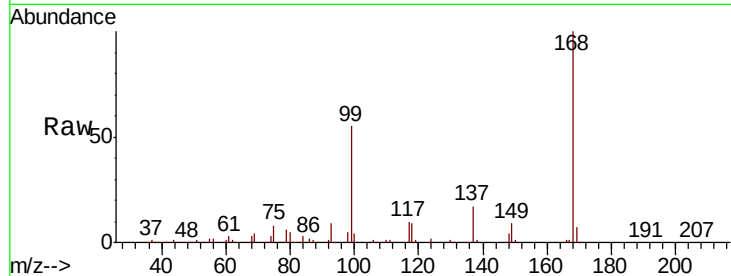




#36
 1,1-Dichloropropene
 Concen: 4.656 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017183.D
 Acq: 06 Jul 2020 20:58

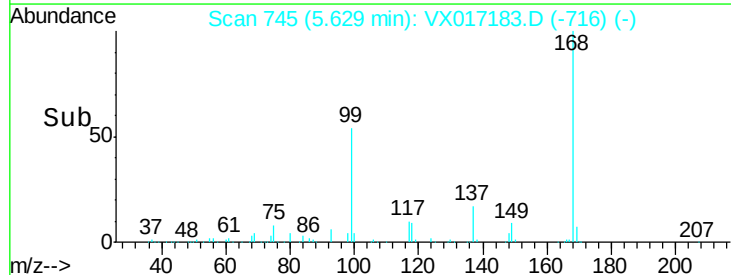
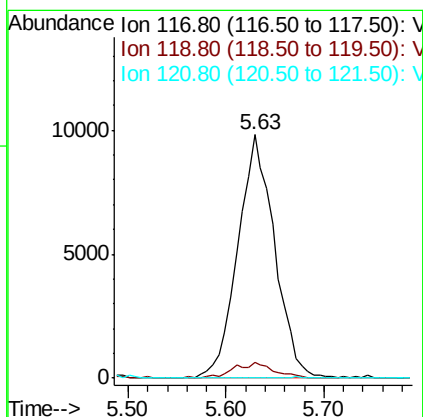
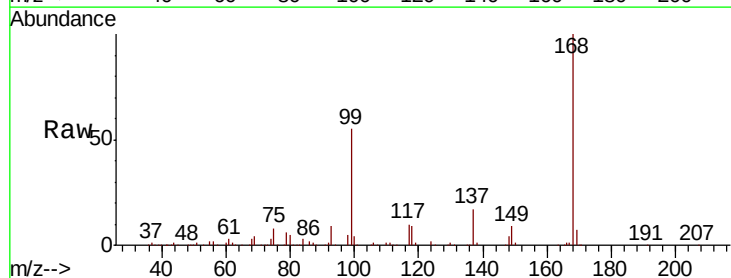
Instrument :
 MSVOA_X
 ClientSampleId :
 09BR-20200629

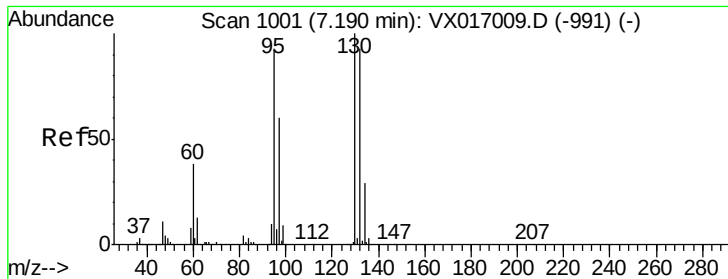
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.0	18.1	54.1#
77	0.3	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 5.592 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX017183.D
 Acq: 06 Jul 2020 20:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	75.4	113.0#
121	0.0	23.8	35.6#





#44

Trichloroethene

Concen: 2.109 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX017183.D

Acq: 06 Jul 2020 20:58

Instrument :

MSVOA_X

ClientSampleId :

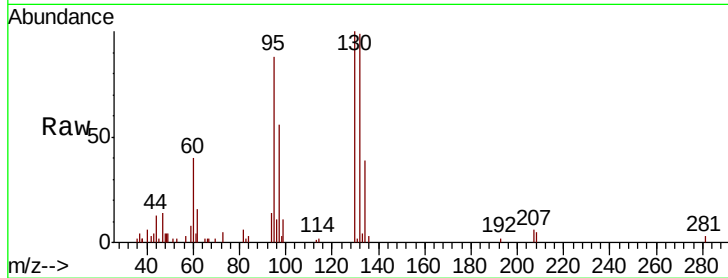
09BR-20200629

Tot Ion:130 Resp: 8096

Ion Ratio Lower Upper

130 100

95 87.6 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.20

4000

3000

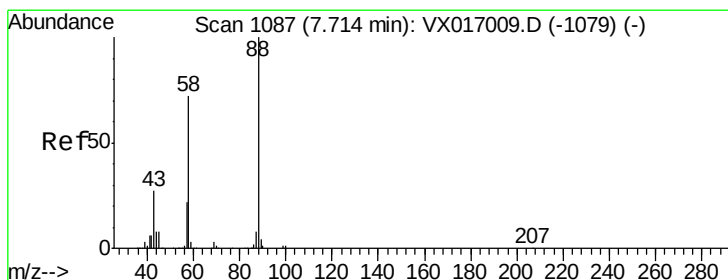
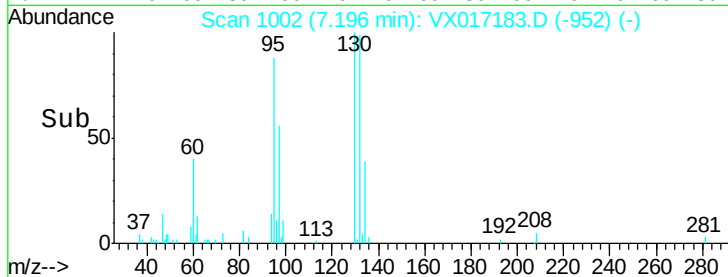
2000

1000

0

Time-->

7.10 7.15 7.20 7.25



#49

1,4-Dioxane

Concen: 0.319 ug/l

RT: 7.81 min Scan# 1102

Delta R.T. 0.09 min

Lab File: VX017183.D

Acq: 06 Jul 2020 20:58

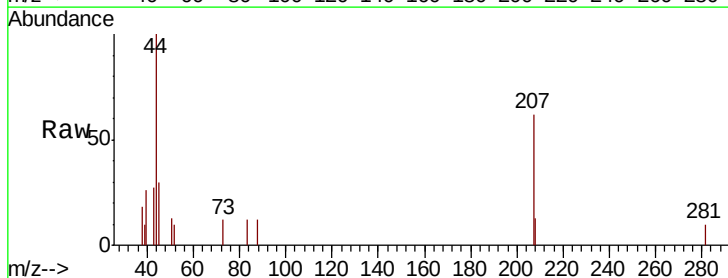
Tgt Ion: 88 Resp: 24

Ion Ratio Lower Upper

88 100

43 979.2 25.8 38.8#

58 200.0 54.8 82.2#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

200

150

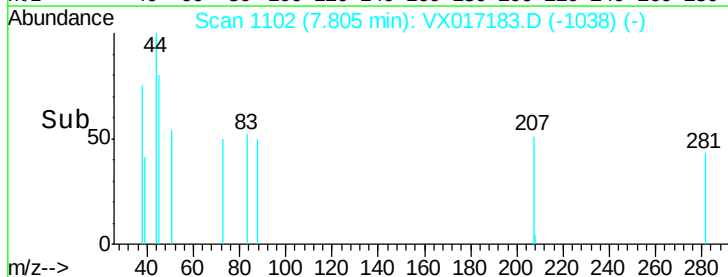
100

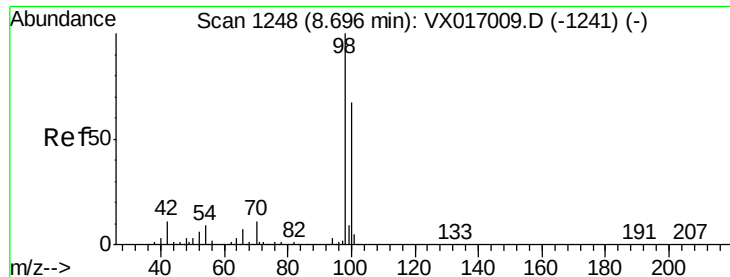
50

0

Time-->

7.79 7.80 7.81 7.82





#50

Toluene-d8

Concen: 52.893 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017183.D

Acq: 06 Jul 2020 20:58

Instrument :

MSVOA_X

ClientSampleId :

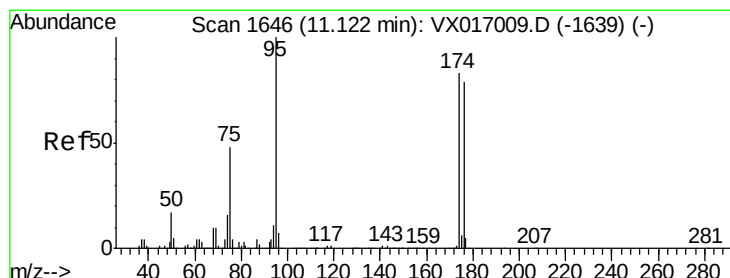
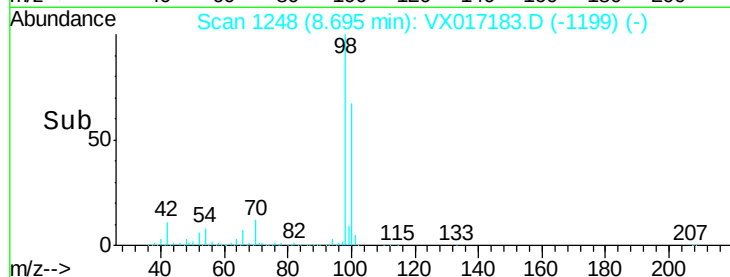
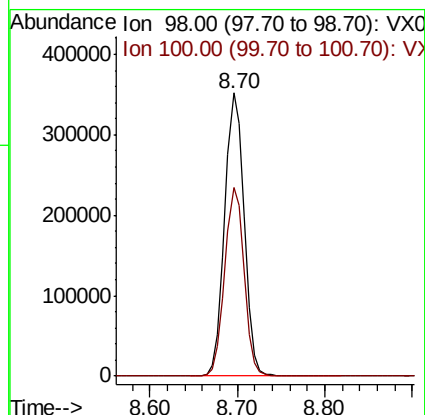
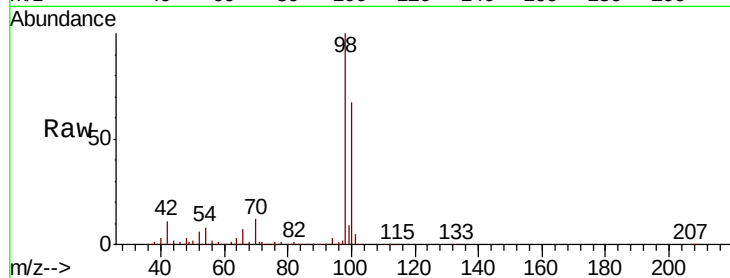
09BR-20200629

Tot Ion: 98 Resp: 543386

Ion Ratio Lower Upper

98 100

100 66.0 53.8 80.6



#62

4-Bromofluorobenzene

Concen: 57.096 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017183.D

Acq: 06 Jul 2020 20:58

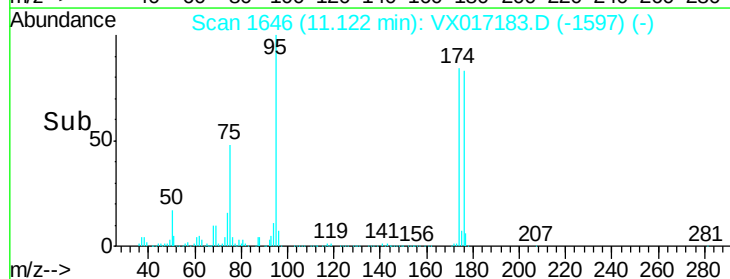
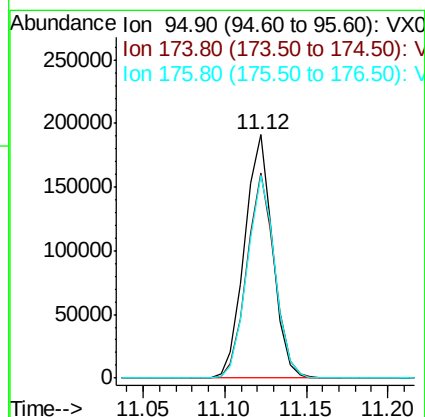
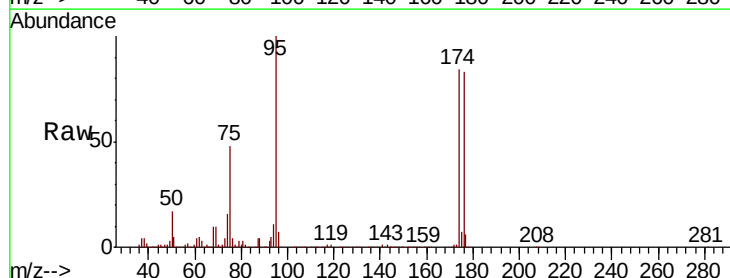
Tgt Ion: 95 Resp: 229293

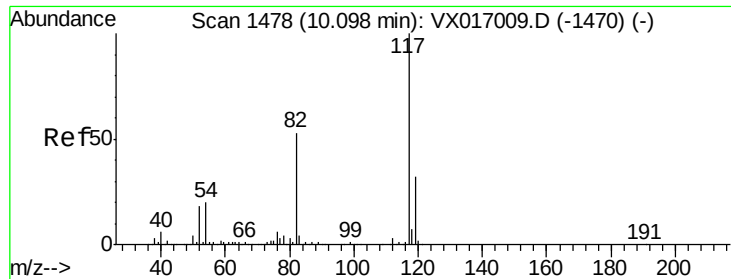
Ion Ratio Lower Upper

95 100

174 83.5 0.0 164.0

176 82.7 0.0 157.6

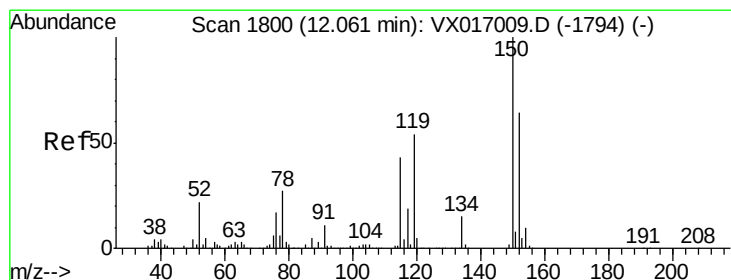
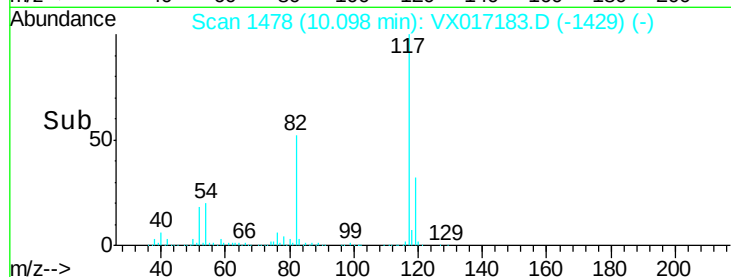
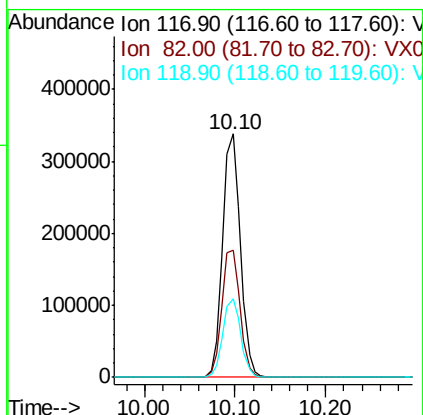
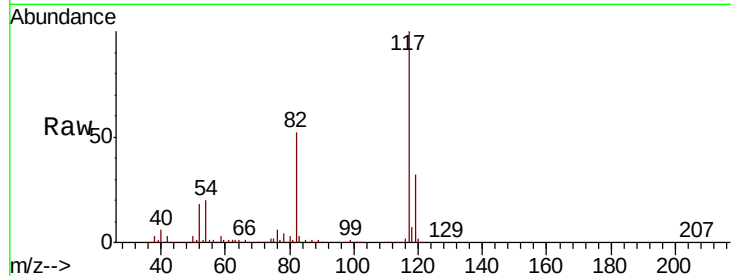




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017183.D
Acq: 06 Jul 2020 20:58

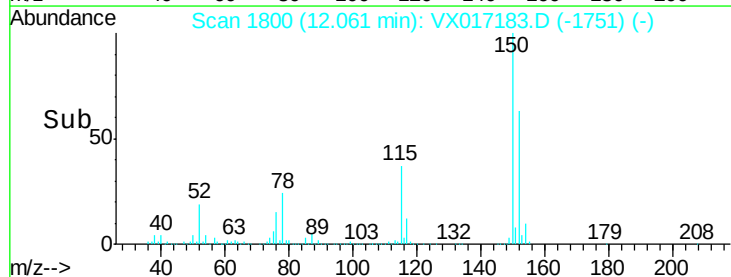
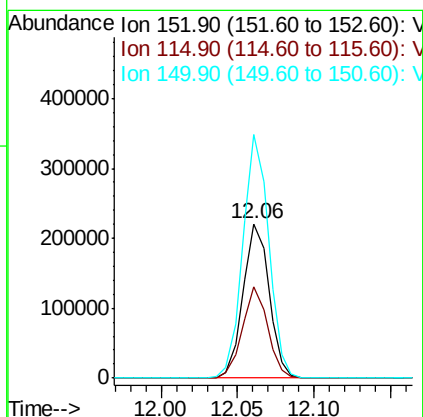
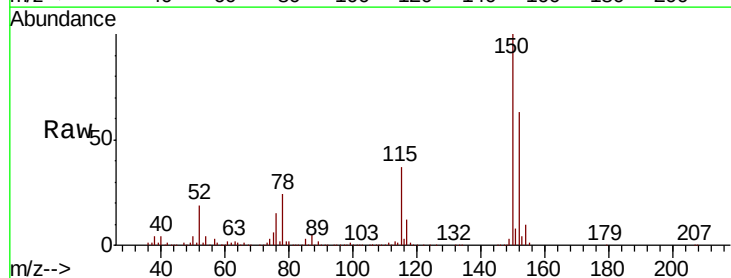
Instrument :
MSVOA_X
ClientSampleId :
09BR-20200629

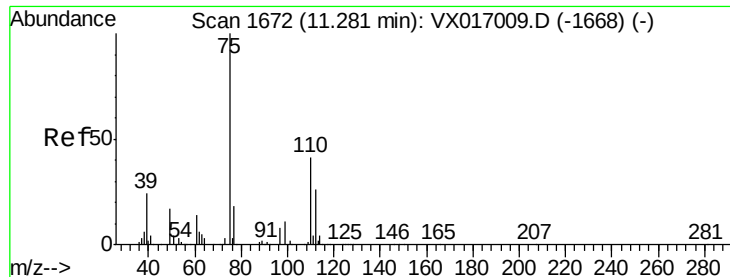
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.4	42.6	63.8
119	32.0	25.4	38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017183.D
Acq: 06 Jul 2020 20:58

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.5	40.9	122.7
150	156.7	0.0	351.6





#76

1,2,3-Trichloropropane

Concen: 22.167 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017183.D

Acq: 06 Jul 2020 20:58

Instrument :

MSVOA_X

ClientSampleId :

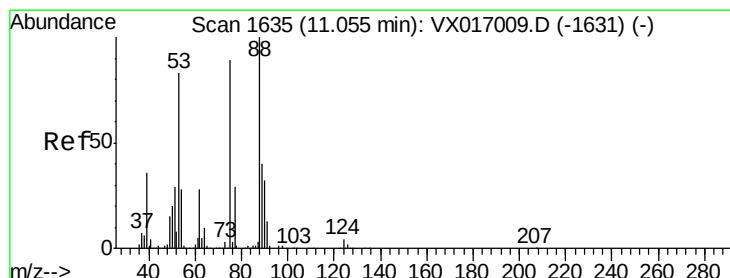
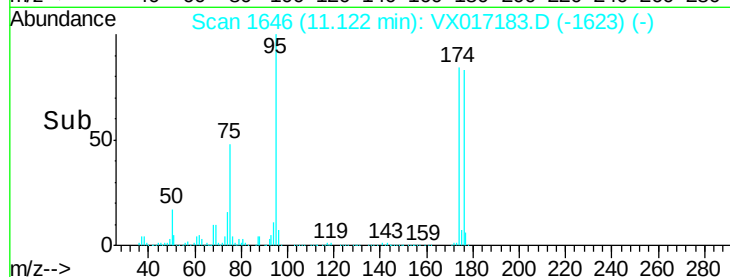
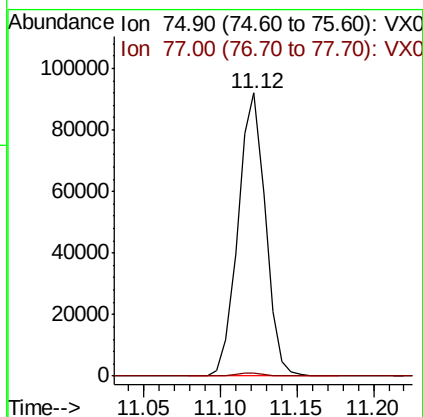
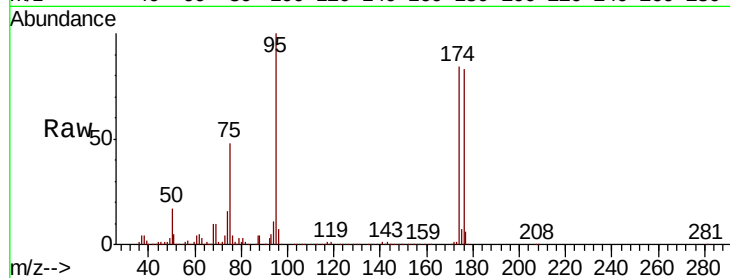
09BR-20200629

Tot Ion: 75 Resp: 113950

Ion Ratio Lower Upper

75 100

77 1.3 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.404 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017183.D

Acq: 06 Jul 2020 20:58

Tgt Ion: 75 Resp: 113950

Ion Ratio Lower Upper

75 100

53 0.1 72.4 108.6#

89 0.0 37.0 55.4#

